

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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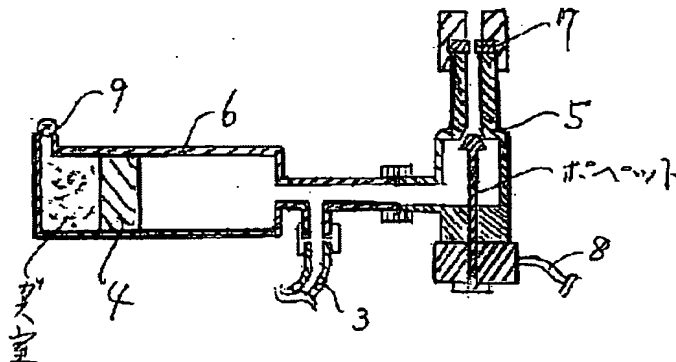
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TITLE : METHOD FOR REPAIRING CONCRETE  
STRUCTURE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method and a device for repairing a concrete structure by crushing, breaking and removing a part to be removed by injecting a super-high pressure water jet or pulse jet.

SOLUTION: A piston 4 partitioning a gas chamber is built in an accumulator 6. The piston 4 compresses the gas chamber when high-pressure water jet is supplied, and opens a poppet type instantaneous opening and closing valve 5 located on the opposite side to the accumulator 6 to inject the high-pressure water jet. It keeps the pressure when the pulse jet is injected, and also acts as a spring for keeping discharge flow rate at the maximum. A series of devices is loaded on a working vehicle with boom, and the accumulator, the instantaneous opening and closing valve, and a nozzle injection parts are integrated and set on the tip of the working vehicle boom.

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